in Nebraska caused a suspension of railroad traffic and did merged, and the residents were moving to higher ground; great damage to crops. On the 23d the river was falling at considerable damage was caused along the water front in Kan-Kansas City, Mo., and on the 28th the river was reported rissas City, and tracts of farming land were under water. On ing and near the danger-line at that place. On the 29th the the Kansas side of the river, opposite Saint Joseph, Mo., and Missouri River was 21.9 feet, 0.9 foot above the danger-line, at at points in Nebraska, the Missouri River was over its banks. Kansas City, and rising, and sections of railroad and bottom During the last few days of the month a part of the Colorado lands were under water. Damage was reported above Kan-Desert basin in San Diego county, Cal., near the line of the sas City at points on the Missouri River in Nebraska, Kansas, Southern Pacific Railroad, was being rapidly filled with water. and Missouri.

the Missouri River opposite Kansas City, was partially sub- formed.

At this point there is a great inland basin which is more than On the 30th the stage of the water at Kansas City was 22.8 200 feet below the level of the sea at its lowest point. At feet, a rise of 0.9 foot in 24 hours. The village of Harlem, on the close of the month a lake about five miles in width had

MISCELLANEOUS PHENOMENA.

DROUTH.

In parts of southern Louisiana crops, especially corn, were damaged by dry weather. In south test Mississippi the rainfall was insufficient and badly distributed, and crops of all kinds were suffering. In west-central Alabama drouth injured early corp, cotton, and garden vegetables. In northeast Pennsylvania the month was very try and many small streams dried up. In Clark county, Ky., crops were reported in a bad condition the early part of the month Swing to drouth. A report from Shreveport, La., dated the 6th, stated that crops were greatly in need of rain, and that many cisterns During the early part of the month the Mohawk Valley, N. Y., suffered severely from drouth; the Mohawk River was at the lowest stage in several years, and many wells and cisterns were dry. Drouth also prevailed the first half of the month in Jefferson, Lewis, Otsego, and Saint Lawrence counties, N. Y., and in Connecticut. In parts of Connecticut, and in Middlesex and Somerset counties, N. J., there was a scarcity of water and great need of rain at the close of the month. In the central and northern counties of Michigan the rainfall was insufficient and pastures, corn, wheat, and hay promised a small yield.

SUN SPOTS.

Mr. D. E. Hadden, Alta, Iowa: 1st, 5 groups, 14 spots; new group with faculæ by rotation on e. limb. 2d, 4 groups, 8 spots. 3d, 4 groups, 14 spots; new group in faculæ e.; faculæ disappearing by rotation. 8th, 1 group, 11 spots; large area of faculæ by rotation in on ne. limb. 9th, 2 groups, 12 spots; new group e., east of faculæ. 10th, 3 groups, 18 spots; new group and faculæ by rotation in one. limb. 11th, 3 groups, 13 spots; group and faculæ disappearing by rotation. 12th, 2 groups, 13 spots; large group of faculæ by rotation on ne. limb; small group of faculæ in on e. limb; 2 groups of faculæ on w. limb disappearing by solar rotation. 13th, 4 groups, 17 spots; new group with large spot on edge e. limb by rotation in faculæ; other new group e. 14th, 4 groups, 20 spots; groups n. latitude. 15th, 5 groups; faculæ 1 day in on e. limb. 22d, 6 groups; faculæ by rotation e. limb. 25th, 6 groups, 30 spots; 1 group disappearing by solar rotation. 27th, 7 groups, 34 spots; faculæ by rotation in on e. limb. 28th, 5 groups, 22 spots; large spot had umbra and penumbra. 29th, 5 groups, 15 spots; 1 large spot. 30th, 5 groups, 12 spots; haze, could not count spots accurately; group by rotation on e. limb.

Mr. John W. James, Riley, Ill.: the group of the 28th of

May vanished 9th, short of w. edge, faculæ taking its place 7th, new group on e. edge, its largest spot estimated 22,000 miles in diameter. 12th, another new group 2 days on e. edge. 14th, large spot and group on e. edge. 16th, new group 3 days on edge; prominent faculæ e. of large spot of 14th. 21st, 1 new spot, and 2 new groups near e. edge; new group 3 days from w. edge. 22d, 1 new spot near e. edge; immense areas of faculæ near e. and w. limbs; could trace them two-thirds sun's apparent diameter. 24th, 2 new groups of small spots 3 days in on e. edge in s. latitude; these increased rapidly in size, 1 spot reaching an estimated diameter of 22,000 miles in 2 or 3 days. 26th, 1 new spot on e. limb. 28th, 2 new groups n. of spot of 24th, and 1 faint spot with faculæ near e. edge.

Mr. H. D. Gowey, North Lewisburgh, Ohio: sun spots were observed on the 2d, 3d, and 9th to 30th.

Haverford College Observatory, Pa. (observed by Prof. F. P. Leavenworth):

Date.	Number of new-		Disappeared by solar rotation.		Reappeared by solar rotation.		Total number visible.		Faculte.	Remarks.
	Groups.	Spots.	Groups.	Spots.	Groups.	Spots.	Groups.	Spots.	Groups.	
June, 1891. 1, 10 a. m 3, 9 a. m 4, 11 a. m 8, 11 a. m 9, 11 a. m 10, 10 a. m 11, 9 a. in 12, 3 p. m 14, 10 a. m 15, 10 a. m 16, 9 a. m 27, 9 a. m 26, 9 a. m 27, 8 a. m 28, 9 a. m 29, 9 a. m 30, 9 a. m 30, 9 a. m	2 1 0 0 0 0 1 1 1 0 2 2 4 4 4 1 2 2 3 1 0 0 2 0 1	2 1 0 0 7 1 0 1 1 1 16 42 12 12 2 4 4 15 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 0 0 0 0 1 0 0 0 1 1 1 1 1	0 0 3 5 3 0 0 0 0 0 10 0 14 3 3 3 4 1			56431233545665979876767	32 38 33 20 11 729 19 66 24 47 88 47 88 48 43 108 108 108 108 108 108 108 108 108 108	2 4 3 1 1 0 2 2 3 3 2 2 5 3 3 3 3 2 2 1 2	Definition fair; 3 large spots. Definition good; 2 large spots. Definition fair. Definition fair. Definition poor. Definition poor. Definition poor; 1 large spot. Definition poor; 1 large spot. Definition fine; 1 large spot. Definition fine; 1 large spots. Definition good; 2 large spots. Definition good; 3 large spots. Definition good; 3 large spots. Definition good; 3 large spots. Definition good; 4 large spots. Definition good; 3 large spots. Definition good; 4 large spots. Definition good; 1 large spots.

* Immense faculæ.

ATMOSPHERIC ELECTRICITY.

and Kent's Hill, Me.; Sault de Ste. Marie, Mich. 5th, Kent's tint, extending from north to northeast and to altitude about Hill, Me.; Sault de Ste. Marie, Mich. 8th, Sault de Ste. 30°, was observed at Sault de Ste. Marie, Mich. It had the Marie, Mich. 15th, Westfield, Wis. 25th, Sandwich, Ill. appearance of a brilliant curtain, with numerous bright beams

Auroras were reported as follows: 4th, Eastport, Orono, Me. 29th, Amana, Iowa; Farmington, Me. 29th, Amana, Iowa; Farmington, Me. On the 4th, about 1 a.m., an aurora of a grayish blue